



This Question Summary is shared in order to promote learning and improve safety. You should seek appropriate guidance regarding the relevance, accuracy and completeness of this information to your circumstances prior to implementation.

SAFETY HEALTH AND ENVIRONMENT QUESTION SUMMARY

Relationship between Temperature and Pressure in Flexible Hoses

Using a hose at elevated temperatures can severely affect the working parameters and lifetime of the hose; this applies to composite hoses, rubber hoses & stainless-steel hoses.

Whilst the hose can work at its maximum working pressure and maximum working temperature it is not recommended to operate both in union in many “real life” situations. Simultaneous use of elevated temperatures and pressures will severely impact service life.

When specifying and procuring hoses, it is essential to understand the actual temperature and pressure that the hose will be subject to during its working life. **You should discuss these requirements with the hose supplier and/or manufacturer and confirm in a written procurement document** to ensure that the correct hose is supplied. You should not rely solely on the information provided in the specification or data sheet.

For more information on hose standards and management refer to:

Guidelines for Liquid Chemical Hose Management (published by the Chemical Distribution Institute)

EN13765/EN13766: 2018 which covers the various requirements of pressure and temperature ratings.